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Main features of the hydrogeological succession in the eastern part of the russian platform and underground disposal of liquid waste (As in the case of Tatarstan republic)

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Abstract

© 2018, International Multidisciplinary Scientific Geoconference. All rights reserved. One of the methods to utilize highly toxic liquid wastes is injecting them into deep aquifers. The sedimentary sheath of the Russian platform within Tatarstan Republic has a prevailing thickness of 1500-2000 m. Two absorbing complexes: Visean-Bashkirian (C1v-C2b) and Middle-Upper Devonian (D2-3) layers, lying at depths of more than 1000 m, are the best for underground disposal of liquid wastes. In recent years, some major petrochemical companies in Tatarstan Republic have organized landfills for underground disposal of waste water. Both of them have two absorbing (their depth is 1800-1900 m) and five observation wells. One observation well is equipped in the buffer formation (Carbonic complex, depth 1200-1300 m), while other wells drill into aquifers of fresh groundwater in the upper 250 m of the section. The experience of waste water pumping and the arrangement of landfills are in considerable interest.

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Keywords

Absorbing complex, Distribution radius of sewage, Hydrogeological section, Pumping of sewage

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